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DATE: Friday, May 11, 2007

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|--------------------------|---------------------|--|----------------------|
| | | <i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i> | |
| <input type="checkbox"/> | L2 | clean\$ with lens with ((immersion lithography system) or ILS) and surfactant | 2 |
| <input type="checkbox"/> | L1 | clean\$ with lens with ((immersion lithography system) or ILS) with surfactant | 0 |

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20070091287 A1

L2: Entry 1 of 2

File: PGPB

Apr 26, 2007

PGPUB-DOCUMENT-NUMBER: 20070091287

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070091287 A1

TITLE: IMMERSION LITHOGRAPHY APPARATUS AND METHODS

PUBLICATION-DATE: April 26, 2007

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------------------|---------------|-------|---------|
| CHANG; Ching-Yu | Yilang County | | TW |
| LIN; Burn Jeng | Hsin-Chu | | TW |
| LIN; Chin-Hsiang | Hsin-Chu | | TW |

US-CL-CURRENT: 355/30; 355/53

ABSTRACT:

A lithography apparatus includes an imaging lens module; a substrate table positioned underlying the imaging lens module and configured to hold a substrate; and a cleaning module adapted to clean the lithography apparatus. The cleaning module is selected from the group consisting of an ultrasonic unit, a scrubber, a fluid jet, an electrostatic cleaner, and combinations thereof.

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Da |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|----------|

☐ 2. Document ID: US 20050205108 A1

L2: Entry 2 of 2

File: PGPB

Sep 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050205108

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050205108 A1

TITLE: Method and system for immersion lithography lens cleaning

PUBLICATION-DATE: September 22, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|------------------|----------|-------|---------|
| Chang, Ching-Yu | Yen-Sun | | TW |
| Lin, Chin-Hsiang | Hsin-Chu | | TW |

US-CL-CURRENT: 134/1; 355/53

ABSTRACT:

A method and system for cleaning lens used in an immersion lithography system is disclosed. After positioning a wafer in the immersion lithography system, a light exposing operation is performed on the wafer using an objective lens immersed in a first fluid containing surfactant, wherein the surfactant reduces a likelihood for having floating defects adhere to the wafer and the objective lens.

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
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|-------|---------------------|-------|----------|-----------|---------------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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| Term | Documents |
|--|-----------|
| LENS | 333915 |
| LENSES | 150203 |
| IMMERSION | 91658 |
| IMMERSIONS | 1268 |
| LITHOGRAPHY | 68840 |
| LITHOGRAPHIES | 353 |
| LITHOGRAPHYS | 1 |
| SYSTEM | 3086267 |
| SYSTEMS | 1901229 |
| ILS | 3491 |
| IL | 373646 |
| (CLEAN\$ WITH LENS WITH ((IMMERSION LITHOGRAPHY SYSTEM) OR ILS) AND SURFACTANT).PGPB,USPT. | 2 |

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